



# INDUSTRIAL STORM WATER MONITORING PROGRAM

HUNTERS POINT NAVAL SHIPYARD

BRAC Cleanup Team (BCT) Meeting  
Mahbub Hussain, Navy Project Manager

**9/4/2014**

---

## STORM WATER PERMIT COMPLIANCE



- **State Water Resources Control Board (SWRCB) Water Quality Order No. 97-03-DWQ, Waste Discharge Requirements for Discharges of Storm Water Associated with Industrial Activities Excluding Construction Activities**
- **Navy complies with the General Permit for industrial activities**

## MONITORING PROGRAM HISTORY



- **Navy filed a Notice of Intent (NOI) to obtain coverage under the Industrial General Permit in 1995**
- **There have been as many as 25 industrial facilities and tenants on HPNS covered by the HPNS storm water monitoring program. These facilities and tenants discharged runoff to 12 discharge points which were monitored as part of the storm water monitoring program.**
  - **Most of the industrial facilities and tenants ceased their activities in the period between 2005 and 2007, prior to the basewide excavation of the storm drain and sanitary sewer pipes. After activities was ceased, the facility and any associated discharge points were removed from the storm water monitoring program.**

## GENERAL PERMIT REQUIREMENTS



- **Develop and implement a Storm Water Pollution Prevention Plan (SWPPP) and Best Management Practices (BMPs)**
- **Perform a storm water monitoring program**
  - **Quarterly non-storm water discharge observations (QNSWDVOs)**
  - **Monthly visual observations of storm water (MSWDVOs)**
    - October 1 through May 31
  - **Storm Water Sampling - Collect and analyze samples from 2 storm events**
    - October 1 through May 31
- **Annual Comprehensive Site Compliance Evaluation (ACSCE)**
- **Submit Annual Reports for Hunters Point Naval Shipyard**
- **Revise the SWPPP**

# GENERAL PERMIT REQUIREMENTS



## **Annual Report**

- **The Annual Report requires a summary of:**
  - **Development and Implementation of the SWPPP**
  - **Non-Storm water discharges**
  - **The Monitoring Reporting Program Plan (MRPP), focusing on the results of the visual observations**
  - **Sampling and analysis results**
  - **SWPPP and MRPP effectiveness and proposed revisions**
  - **ACSCE Summary Report**

# STORM WATER MONITORING PROGRAM SUMMARY



## HPNS STORM WATER MONITORING PROGRAM SUMMARY

<b>Storm Water Monitoring Program Element</b>	<b>Total</b>
<b>Drainage Basins Associated with Current Industrial Facilities</b>	<b>6</b>
<b>Associated Outfalls</b>	<b>6</b>
<b>Monthly Storm Water Discharge Visual Observations (6 outfalls x 8 months)</b>	<b>48</b>
<b>Storm Water Sampling</b>	
<b>Outfalls Selected for Sampling</b>	<b>6</b>
<b>Storm Water Discharge Samples (2 per selected outfall)</b>	<b>12</b>
<b>Quarterly Non-Storm Water Discharge Visual Observations</b>	
<b>Outfall Observations (6 outfalls x 4 times/year)</b>	<b>24</b>
<b>Annual Comprehensive Site Compliance Evaluation</b>	
<b>Industrial Facilities Evaluated</b>	<b>2</b>

## CURRENT STORM WATER MONITORING LOCATIONS



**Landfill/Parcel E-2 area – Aerial View– 5 discharge monitoring locations in this area; Discharge Points DP1, DP2, DP3, DP4, and OLF101**





## CURRENT STORM WATER MONITORING LOCATIONS



**Parcel B area – Aerial View– 1 discharge monitoring location in this area; Outfall 7**



**---> Runoff flow path**



# MONITORING PROGRAM CURRENT STATUS



## ANALYTICAL PARAMETERS FOR SELECTED OUTFALLS

PARAMETER	OUTFALLS					
	7	OLF101	DP1	DP2	DP3	DP4
Total Organic Carbon (TOC)	X					
Oil & Grease	X	X	X	X	X	X
Polychlorinated biphenyls (PCBs)			X	X	X	
Semivolatile organic compounds (SVOCs)		X	X	X	X	X
Aluminum (Al)		X				
Beryllium (Be)		X				X
Cobalt (Co)		X				X
Copper (Cu)		X				X
Iron (Fe)		X				
Selenium (Se)		X				
Titanium (Ti)		X				
Title 22 Metals			X	X	X	
pH	X	X	X	X	X	X
Specific Conductance (SC)	X	X	X	X	X	X
Total Suspended Solids (TSS)	X	X	X	X	X	X

Title 22 Metals consists of Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

## MONITORING PROGRAM CURRENT STATUS



- **Laboratory analysis of the two samples collected at Outfall 7 indicate that there were no significant levels of pollutants the storm water runoff.**
- **Laboratory analysis of storm water samples collected during the four previous annual storm water monitoring programs at the five discharge points located in the Parcel E-2 Landfill area have indicated that there were no significant levels of pollutants in the storm water runoff.**

## FUTURE ACTIONS



- Navy will prepare and submit a Notice Of Termination (NOT), except perhaps at Parcel E-2.
- Upon transfer of Parcel E-2, the Navy may elect to continue conducting stormwater monitoring and BMPs as part of the long term O&M.
- The Navy will continue to comply with stormwater BMPs across at every parcel under CERCLA until the time of transfer.

**QUESTIONS?**